

CONTENTS OF VOLUME 16

Numbers 1–3

Special Issue: Optimum Design of Composite Structures

Foreword	v
Preface	vii
A New Approach to Structural Optimization	1
R. JONES, M. HELLER, J. G. SPARROW & T. G. RYALL (Australia)	
A Buckling Analysis Capability for Use in the Design of Composite Prismatic Plate Structures	33
D. J. DAWE & V. PESHKAM (UK)	
Strain and Stress Analysis in Tapered Laminated Composite Structures	65
A. MIRAVETE (Spain)	
Optimum Design Considerations for Mechanically Fastened Composite Joints	85
W. S. ARNOLD, I. H. MARSHALL & J. WOOD (UK)	
Iterative Preliminary Design Tools for Composite Structures	103
S. R. HALL (Canada)	
Optimisation of Adhesive Bonded Composite Tubular Sections	125
L. HOLLAWAY, A. ROMHI & M. GUNN (UK)	
Developments in the Acoustic Fatigue Design Process for Composite Aircraft Structures	171
R. G. WHITE (UK)	
Developing a Focused Design Methodology for Composite Material Systems	193
O. O. OCHOA (USA)	
Design and Manufacturing Criteria for High Precision Composite Antenna Reflectors. Prediction of the Residual Distortions after the Manufacturing Process	209
P. CIRESE, M. MARCHETTI & S. SGUBINI (Italy)	
Some Computational and Experimental Aspects of the Optimal Design Process of Composite Structures	237
S. MAKSIMOVIĆ (Yugoslavia)	
A Preliminary Approach to Composite Beam Design Using FEM Analysis	259
A. CORVI (Italy)	
Index	277

Contents of Volume 16

363

Number 4

Vibrational Analysis of a Double-layer Composite Material Structure . . .	283
L. HOLLAWAY & A. M. FARHAT (UK)	
Thermal Joining of Carbon Fibre Reinforced PEEK Laminates . . .	305
W. J. CANTWELL, P. DAVIES, P. E. BOURBAN, P.-Y. JAR, H. RICHARD & H. H. KAUSCH (Switzerland)	
Nonlinear Oscillations of a Harmonically Excited Composite Structure . . .	323
B. BALACHANDRAN & A. H. NAYFEH (USA)	
Damage Evolution and Constitutive Behavior of Advanced Composites . . .	341
G. FRANTZISKONIS & S. P. JOSHI (USA)	
Book Review	359
Announcements	360

